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APPLICATION NO). <u>I</u>	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/782,056 02		02/18/2004	Rob Worsham	12013/50101	5746	
23838	7590	07/29/2004		EXAMINER		
	V & KENY		MICHENER, JENNIFER KOLB			
1500 K STREET, N.W., SUITE 700 WASHINGTON, DC 20005				ART UNIT	PAPER NUMBER	
				1762		

DATE MAILED: 07/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No.	Applicant(s)	
0.00		10/782,0	056	WORSHAM, ROB	\supset
Office Acti	ion Summary	Examine	er	Art Unit	
			K. Michener	1762	
The MAILING D Period for Reply	ATE of this communication	appears on th	e cover sheet with the	correspondence addi	ess
THE MAILING DATE (- Extensions of time may be avafter SIX (6) MONTHS from t - If the period for reply specific - If NO period for reply is specific - Failure to reply within the set	FUTORY PERIOD FOR RED THIS COMMUNICATION Validable under the provisions of 37 CF of the mailing date of this communication do above is less than thirty (30) days, if ified above, the maximum statutory perion or extended period for reply will, by some later than three months after the rest. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no e n. a reply within the sta eriod will apply and v statute, cause the ap	vent, however, may a reply be til autory minimum of thirty (30) day will expire SIX (6) MONTHS from plication to become ABANDONE	mely filed ys will be considered timely. the mailing date of this com ED (35 U.S.C. § 133).	munication.
Status					
1)⊠ Responsive to c	ommunication(s) filed on 6	08 July 2004.			
2a) This action is FI	NAL. 2b)⊠	This action is	non-final.		
3) Since this applic	ation is in condition for all	owance excep	t for formal matters, pr	osecution as to the n	nerits is
closed in accord	ance with the practice und	ler <i>Ex parte</i> Q	uayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims					
4)⊠ Claim(s) <u>1-29</u> is/	are pending in the applica	tion.			
4a) Of the above	claim(s) <u>10-29</u> is/are with	drawn from co	nsideration.		
5)	is/are allowed.				
6)⊠ Claim(s) <u>1-9</u> is/a					
_	s/are objected to.				
8)	are subject to restriction ar	nd/or election	requirement.		
Application Papers					
9)☐ The specification	is objected to by the Exan	niner.			
10) The drawing(s) fi	led on is/are: a)	accepted or b)□ objected to by the	Examiner.	
	request that any objection to			• •	
	ving sheet(s) including the co				
11) I he oath or decla	aration is objected to by the	e Examiner. N	ote the attached Office	Action or form PTO	-152.
Priority under 35 U.S.C. {	§ 119				
a)	is made of a claim for fore ne * c) None of:)-(d) or (f).	
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Attachment/c\					
Attachment(s) I)	l (PTO-892)		4) Interview Summary	(PTO-413)	
2) 🔲 Notice of Draftsperson's Pa	atent Drawing Review (PTO-948)		Paper No(s)/Mail Da	ate	
B) Information Disclosure State Paper No(s)/Mail Date 2/18		/08)	5) Notice of Informal P 6) Other:	atent Application (PTO-1	52)

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DETAILED ACTION

Election/Restrictions

1. Examiner appreciates Applicant's election of claims 1-9 without traverse. Claims 10-29 have been withdrawn from further consideration as being drawn to nonelected inventions.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-6 and 8-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Wu (NPL document cited by Applicant).

Wu teaches a method of coating a biosensor, a medical device, by vaporizing a frozen target with a laser beam to deposit a bio-layer on the medical device (abstract).

Wu teaches that the target may be a protein, enzyme, living cells, or polyethylene glycol in a solution within a solvent (Introduction, Sections 2.2, 3.1, and 4.1) to be frozen and mounted on a refrigerated assembly. The assembly may be rotated (Fig. 2(a)) within a vacuum chamber, subjecting the target to a pulsed laser beam, after which the solvent is pumped away for deposition of the target.

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Wu teaches creation of multilayer composite structures using the pulsed laser deposition method of his invention (Conclusion), inherently requiring directing the laser beam at another frozen target.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wu. Wu teaches that which is disclosed above. Additionally, from Figure 2(a), it appears that the vaporized target material is directed towards the substrate, however Wu does not specifically teach transporting the material within a directed "gas flow". However, it is Examiner's position that it would have been obvious to one of ordinary skill in the art to enhance the flow of the target coating by directing it to the desired substrate using a suspending gas stream.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. McGill is cited for teaching the use of MAPLE. Hellinga teaches that biosensors act as medical devices which may be implantable (DETX15). Ratner teaches that biosensors are implantable medical devices (DETX17).

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer K. Michener whose telephone number is (571) 272-1424. The examiner can normally be reached on Monday through Thursday and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive P. Beck can be reached on 571-272-1415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jennifer Kolb Michener

Patent Examiner

Technology Center 1700

July 26, 2004